

Auburn

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	11.92	12	101	Male	7.05	9	128
Female	4.47	3	NC*	Female	5.21	4	NC*
Total	16.38	15	92	Total	12.26	13	106
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	3.56	3	NC*	Male	2.22	0	NC*
Female	2.81	1	NC*	Female	1.98	1	NC*
Total	6.37	4	NC*	Total	4.20	1	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.75	0	NC*	Male	8.95	11	123
Female	69.04	60	87	Female	8.06	14	174
Total	69.78	60	86	Total	17.01	25	147
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	3.85	2	NC*	Male	7.25	5	69
				Female	3.44	1	NC*
				Total	10.68	6	56
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	29.80	20	67	Female	8.02	10	125
Female	28.04	25	89				
Total	57.83	45	78				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	4.20	7	167	Male	4.62	1	NC*
Female	1.45	0	NC*	Female	4.88	7	143
Total	5.64	7	124	Total	9.50	8	84
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	1.57	1	NC*	Male	70.64	70	99
Female	1.23	3	NC*				
Total	2.80	4	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	6.64	10	151	Male	4.98	3	NC*
Female	4.14	6	145	Female	2.99	4	NC*
Total	10.78	16	148	Total	7.96	7	88
<u>Larynx</u>				<u>Testis</u>			
Male	3.82	8	210	Male	2.28	2	NC*
Female	1.04	1	NC*				
Total	4.86	9	185				
<u>Leukemia</u>				<u>Thyroid</u>			
Male	4.90	6	122	Male	1.33	1	NC*
Female	3.74	3	NC*	Female	3.35	9	269 #+
Total	8.64	9	104	Total	4.68	10	214 #+
<u>Liver and Intrahepatic Bile Ducts</u>				<u>Uteri, Corpus and Uterus, NOS</u>			
Male	2.45	1	NC*	Female	13.46	18	134
Female	1.03	0	NC*				
Total	3.48	1	NC*				
<u>Lung and Bronchus</u>				<u>All Sites / Types</u>			
Male	37.40	43	115	Male	232.00	222	96
Female	29.19	23	79	Female	217.20	212	98
Total	66.59	66	99	Total	449.21	434	97

Exp = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

Obs = observed case count

SIR = standardized incidence ratio [**Obs** / **Exp**) X 100]

* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

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indicates statistical significance at the $p \leq 0.05$ level

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Avon

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	3.10	5	161	Male	1.88	1	NC*
Female	1.21	2	NC*	Female	1.48	5	338 #+
Total	4.31	7	162	Total	3.36	6	179
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	0.96	1	NC*	Male	0.57	1	NC*
Female	0.80	2	NC*	Female	0.54	1	NC*
Total	1.77	3	NC*	Total	1.12	2	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.20	0	NC*	Male	2.39	2	NC*
Female	19.35	14	72	Female	2.25	2	NC*
Total	19.54	14	72	Total	4.63	4	NC*
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	1.13	1	NC*	Male	1.93	1	NC*
				Female	0.95	1	NC*
				Total	2.88	2	NC*
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	7.81	11	141	Female	2.27	1	NC*
Female	7.56	8	106				
Total	15.37	19	124				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	1.11	1	NC*	Male	1.22	1	NC*
Female	0.39	0	NC*	Female	1.33	0	NC*
Total	1.50	1	NC*	Total	2.55	1	NC*
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	0.45	0	NC*	Male	18.84	14	74
Female	0.37	0	NC*				
Total	0.82	0	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	1.75	1	NC*	Male	1.30	1	NC*
Female	1.16	0	NC*	Female	0.80	0	NC*
Total	2.91	1	NC*	Total	2.10	1	NC*
<u>Larynx</u>				<u>Testis</u>			
Male	1.02	1	NC*	Male	0.66	1	NC*
Female	0.29	0	NC*				
Total	1.31	1	NC*				
<u>Leukemia</u>				<u>Thyroid</u>			

Male	1.30	2	NC*
Female	1.03	1	NC*
Total	2.33	3	NC*

Liver and Intrahepatic Bile Ducts

Male	0.65	0	NC*
Female	0.28	0	NC*
Total	0.93	0	NC*

Lung and Bronchus

Male	9.89	12	121
Female	8.22	13	158
Total	18.10	25	138

Male	0.37	1	NC*
Female	1.00	3	NC*
Total	1.37	4	NC*

Uteri, Corpus and Uterus, NOS

Female	3.76	4	NC*
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All Sites / Types

Male	61.55	62	101
Female	60.47	60	99
Total	122.01	122	100

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Ayer

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	2.44	6	246	Male	1.63	1	NC*
Female	1.27	1	NC*	Female	1.51	2	NC*
Total	3.71	7	188	Total	3.14	3	NC*
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	0.93	0	NC*	Male	0.46	0	NC*
Female	0.84	1	NC*	Female	0.53	0	NC*
Total	1.77	1	NC*	Total	0.99	0	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.16	0	NC*	Male	2.13	6	282 #+
Female	18.42	22	119	Female	2.30	3	NC*
Total	18.58	22	118	Total	4.42	9	204
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	1.15	1	NC*	Male	1.57	3	NC*
				Female	0.94	0	NC*
				Total	2.51	3	NC*
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	6.16	15	243 ~+	Female	2.19	4	NC*
Female	8.02	11	137				
Total	14.19	26	183 ~+				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	0.86	3	NC*	Male	0.95	0	NC*
Female	0.42	0	NC*	Female	1.38	3	NC*
Total	1.28	3	NC*	Total	2.33	3	NC*
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	0.54	0	NC*	Male	14.36	28	195 ~+

Female	0.44	0	NC*				
Total	0.97	0	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	1.44	1	NC*	Male	1.03	1	NC*
Female	1.13	0	NC*	Female	0.87	3	NC*
Total	2.57	1	NC*	Total	1.91	4	NC*
<u>Larynx</u>				<u>Testis</u>			
Male	0.79	3	NC*	Male	0.88	2	NC*
Female	0.26	1	NC*				
Total	1.05	4	NC*				
<u>Leukemia</u>				<u>Thyroid</u>			
Male	1.21	1	NC*	Male	0.37	0	NC*
Female	1.15	1	NC*	Female	1.07	3	NC*
Total	2.36	2	NC*	Total	1.44	3	NC*
<u>Liver and Intrahepatic Bile Ducts</u>				<u>Uteri, Corpus and Uterus, NOS</u>			
Male	0.53	0	NC*	Female	3.46	4	NC*
Female	0.29	0	NC*				
Total	0.82	0	NC*				
<u>Lung and Bronchus</u>				<u>All Sites / Types</u>			
Male	7.75	17	219 ~+	Male	49.83	94	189 ^+
Female	7.65	10	131	Female	59.90	75	125
Total	15.40	27	175 ~+	Total	109.72	169	154 ^+

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Barnstable

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	45.24	73	161 ^+	Male	23.71	53	224 ^+
Female	16.10	10	62	Female	16.61	29	175 ~+
Total	61.34	83	135 ~+	Total	40.32	82	203 ^+
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	11.36	20	176 #+	Male	8.12	8	99
Female	8.98	12	134	Female	6.77	9	133
Total	20.34	32	157 #+	Total	14.89	17	114
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	2.71	3	NC*	Male	30.66	26	85
Female	221.16	237	107	Female	27.52	17	62 #-
Total	223.87	240	107	Total	58.17	43	74 #-
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	11.60	10	86	Male	23.58	26	110
				Female	11.42	16	140

				Total	35.01	42	120
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	111.67	80	72 ~-	Female	25.46	27	106
Female	101.36	98	97				
Total	213.03	178	84 #-	<u>Pancreas</u>			
<u>Esophagus</u>				Male	16.66	20	120
Male	14.54	14	96	Female	17.55	29	165 #+
Female	5.28	7	133	Total	34.21	49	143 #+
Total	19.82	21	106	<u>Prostate</u>			
<u>Hodgkin's Disease</u>				Male	250.79	319	127 ^+
Male	4.51	7	155				
Female	3.78	5	132	<u>Stomach</u>			
Total	8.29	12	145	Male	18.54	19	102
<u>Kidney and Renal Pelvis</u>				Female	10.87	11	101
Male	22.60	15	66	Total	29.41	30	102
Female	13.80	12	87	<u>Testis</u>			
Total	36.40	27	74	Male	6.09	4	NC*
<u>Larynx</u>				<u>Thyroid</u>			
Male	12.73	11	86	Male	3.87	7	181
Female	3.30	4	NC*	Female	9.96	10	100
Total	16.03	15	94	Total	13.83	17	123
<u>Leukemia</u>				<u>Uteri, Corpus and Uterus, NOS</u>			
Male	17.12	18	105	Female	43.00	49	114
Female	12.62	15	119				
Total	29.74	33	111	<u>All Sites / Types</u>			
<u>Liver and Intrahepatic Bile Ducts</u>				Male	823.36	905	110 ~+
Male	8.38	9	107	Female	723.44	756	105
Female	3.62	2	NC*	Total	1546.80	1661	107 ~+
Total	12.00	11	92				
<u>Lung and Bronchus</u>							
Male	134.01	132	98				
Female	97.28	115	118				
Total	231.29	247	107				

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Barre

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	3.10	1	NC*	Male	1.94	2	NC*
Female	1.18	0	NC*	Female	1.44	1	NC*
Total	4.28	1	NC*	Total	3.38	3	NC*

Brain and Other Central Nervous System

Male	1.01	0	NC*
Female	0.79	0	NC*
Total	1.80	0	NC*

Breast

Male	0.20	0	NC*
Female	18.30	16	87
Total	18.50	16	87

Cervix Uteri

Female	1.09	1	NC*
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Colon / Rectum

Male	7.75	8	103
Female	7.43	8	108
Total	15.18	16	105

Esophagus

Male	1.11	0	NC*
Female	0.38	0	NC*
Total	1.49	0	NC*

Hodgkin's Disease

Male	0.48	0	NC*
Female	0.38	2	NC*
Total	0.86	2	NC*

Kidney and Renal Pelvis

Male	1.80	5	277
Female	1.09	1	NC*
Total	2.89	6	207

Larynx

Male	1.02	2	NC*
Female	0.27	1	NC*
Total	1.29	3	NC*

Leukemia

Male	1.37	2	NC*
Female	1.05	0	NC*
Total	2.41	2	NC*

Liver and Intrahepatic Bile Ducts

Male	0.66	0	NC*
Female	0.27	0	NC*
Total	0.93	0	NC*

Lung and Bronchus

Male	9.80	5	51
Female	7.56	9	119
Total	17.36	14	81

Multiple Myeloma

Male	0.59	0	NC*
Female	0.52	1	NC*
Total	1.11	1	NC*

Non-Hodgkin's Lymphoma

Male	2.46	3	NC*
Female	2.16	1	NC*
Total	4.62	4	NC*

Oral Cavity and Pharynx

Male	1.98	1	NC*
Female	0.91	1	NC*
Total	2.89	2	NC*

Ovary

Female	2.15	4	NC*
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Pancreas

Male	1.21	0	NC*
Female	1.28	2	NC*
Total	2.48	2	NC*

Prostate

Male	18.31	13	71
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Stomach

Male	1.31	0	NC*
Female	0.80	1	NC*
Total	2.10	1	NC*

Testis

Male	0.72	0	NC*
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Thyroid

Male	0.39	0	NC*
Female	0.98	1	NC*
Total	1.37	1	NC*

Uteri, Corpus and Uterus, NOS

Female	3.51	2	NC*
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All Sites / Types

Male	61.46	48	78
Female	57.78	55	95
Total	119.25	103	86

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Becket

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	1.14	0	NC*	Male	0.72	1	NC*
Female	0.33	0	NC*	Female	0.45	0	NC*
Total	1.47	0	NC*	Total	1.17	1	NC*
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	0.38	1	NC*	Male	0.22	0	NC*
Female	0.25	1	NC*	Female	0.15	0	NC*
Total	0.62	2	NC*	Total	0.37	0	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.07	0	NC*	Male	0.91	1	NC*
Female	5.81	5	86	Female	0.64	2	NC*
Total	5.89	5	85	Total	1.55	3	NC*
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	0.35	0	NC*	Male	0.75	0	NC*
				Female	0.28	0	NC*
				Total	1.03	0	NC*
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	2.86	2	NC*	Female	0.69	0	NC*
Female	2.03	3	NC*				
Total	4.89	5	102				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	0.42	1	NC*	Male	0.45	0	NC*
Female	0.10	0	NC*	Female	0.36	0	NC*
Total	0.53	1	NC*	Total	0.81	0	NC*
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	0.17	0	NC*	Male	6.94	2	NC*
Female	0.12	0	NC*				
Total	0.29	0	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	0.68	0	NC*	Male	0.48	0	NC*
Female	0.34	0	NC*	Female	0.22	0	NC*
Total	1.01	0	NC*	Total	0.70	0	NC*
<u>Larynx</u>				<u>Testis</u>			
Male	0.39	1	NC*	Male	0.26	0	NC*
Female	0.09	0	NC*				
Total	0.48	1	NC*				
<u>Leukemia</u>				<u>Thyroid</u>			
Male	0.50	0	NC*	Male	0.14	0	NC*
Female	0.31	0	NC*	Female	0.32	0	NC*
Total	0.81	0	NC*	Total	0.46	0	NC*
<u>Liver and Intrahepatic Bile Ducts</u>				<u>Uteri, Corpus and Uterus, NOS</u>			
Male	0.25	0	NC*	Female	1.13	0	NC*
Female	0.08	0	NC*				
Total	0.33	0	NC*				
<u>Lung and Bronchus</u>				<u>All Sites / Types</u>			

Male	3.67	0	NC*	Male	22.97	10	44 ~-
Female	2.35	1	NC*	Female	17.59	12	68
Total	6.02	1	NC*	Total	40.56	22	54 ~-

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Bedford

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	10.22	12	117	Male	5.87	4	NC*
Female	2.73	1	NC*	Female	3.31	4	NC*
Total	12.95	13	100	Total	9.18	8	87
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	2.96	3	NC*	Male	1.88	6	320 #+
Female	1.78	4	NC*	Female	1.19	1	NC*
Total	4.74	7	148	Total	3.07	7	228
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.63	0	NC*	Male	7.51	11	146
Female	42.71	65	152 ~+	Female	4.94	3	NC*
Total	43.34	65	150 ~+	Total	12.45	14	112
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	2.51	2	NC*	Male	5.98	6	100
				Female	2.12	3	NC*
				Total	8.10	9	111
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	25.63	18	70	Female	5.01	15	300 ^+
Female	17.02	20	118				
Total	42.65	38	89				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	3.54	5	141	Male	3.93	2	NC*
Female	0.88	1	NC*	Female	2.97	7	235
Total	4.43	6	136	Total	6.91	9	130
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	1.30	1	NC*	Male	60.85	64	105
Female	0.84	0	NC*				
Total	2.13	1	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	5.55	7	126	Male	4.24	1	NC*
Female	2.53	8	317 ~+	Female	1.84	1	NC*
Total	8.07	15	186 #+	Total	6.08	2	NC*
<u>Larynx</u>				<u>Testis</u>			
Male	3.19	2	NC*	Male	1.88	0	NC*

Female	0.63	1	NC*
Total	3.82	3	NC*

Leukemia

Male	4.13	6	145
Female	2.39	5	209
Total	6.52	11	169

Liver and Intrahepatic Bile Ducts

Male	2.06	1	NC*
Female	0.63	2	NC*
Total	2.69	3	NC*

Lung and Bronchus

Male	32.03	20	62 #-
Female	17.44	27	155 #+
Total	49.47	47	95

Thyroid

Male	1.08	1	NC*
Female	2.22	7	315 #+
Total	3.31	8	242 #+

Uteri, Corpus and Uterus, NOS

Female	8.22	16	195 #+
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All Sites / Types

Male	197.80	185	94
Female	133.70	203	152 ^+
Total	331.51	388	117 ~+

Exp = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

Obs = observed case count

SIR = standardized incidence ratio [**Obs** / **Exp**] X 100]

* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

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indicates statistical significance at the $p \leq 0.05$ level

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Belchertown

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	6.22	5	80	Male	4.25	2	NC*
Female	2.23	3	NC*	Female	3.30	2	NC*
Total	8.45	8	95	Total	7.56	4	NC*
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	2.29	3	NC*	Male	1.21	3	NC*
Female	1.76	2	NC*	Female	1.03	0	NC*
Total	4.05	5	124	Total	2.24	3	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.41	1	NC*	Male	5.35	2	NC*
Female	40.21	35	87	Female	4.43	1	NC*
Total	40.62	36	89	Total	9.78	3	NC*
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	2.72	2	NC*	Male	4.38	2	NC*
				Female	1.91	2	NC*
				Total	6.29	4	NC*
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	15.63	14	90	Female	4.82	5	104
Female	13.99	14	100				
Total	29.62	28	95				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	2.35	1	NC*	Male	2.50	1	NC*
Female	0.71	0	NC*	Female	2.42	1	NC*

Total	3.06	1	NC*
<u>Hodgkin's Disease</u>			
Male	1.17	0	NC*
Female	0.96	1	NC*
Total	2.13	1	NC*

<u>Kidney and Renal Pelvis</u>			
Male	3.87	1	NC*
Female	2.25	0	NC*
Total	6.13	1	NC*

<u>Larynx</u>			
Male	2.21	1	NC*
Female	0.57	1	NC*
Total	2.78	2	NC*

<u>Leukemia</u>			
Male	2.93	0	NC*
Female	2.23	2	NC*
Total	5.16	2	NC*

<u>Liver and Intrahepatic Bile Ducts</u>			
Male	1.41	0	NC*
Female	0.53	0	NC*
Total	1.94	0	NC*

<u>Lung and Bronchus</u>			
Male	20.20	18	89
Female	15.26	20	131
Total	35.46	38	107

Total	4.93	2	NC*
<u>Prostate</u>			
Male	37.73	29	77

<u>Stomach</u>			
Male	2.67	0	NC*
Female	1.52	1	NC*
Total	4.18	1	NC*

<u>Testis</u>			
Male	1.84	1	NC*

<u>Thyroid</u>			
Male	0.93	1	NC*
Female	2.53	3	NC*
Total	3.45	4	NC*

<u>Uteri, Corpus and Uterus, NOS</u>			
Female	7.58	7	92

<u>All Sites / Types</u>			
Male	128.52	92	72 ^~
Female	121.52	111	91
Total	250.04	203	81 ~-

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Bellingham

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>			
Male	7.26	6	83
Female	2.70	3	NC*
Total	9.96	9	90

<u>Brain and Other Central Nervous System</u>			
Male	2.90	2	NC*
Female	2.23	3	NC*
Total	5.13	5	97

<u>Breast</u>			
Male	0.49	0	NC*
Female	51.44	56	109
Total	51.93	56	108

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Melanoma of Skin</u>			
Male	5.25	6	114
Female	4.16	5	120
Total	9.41	11	117

<u>Multiple Myeloma</u>			
Male	1.43	0	NC*
Female	1.30	1	NC*
Total	2.73	1	NC*

<u>Non-Hodgkin's Lymphoma</u>			
Male	6.56	10	153
Female	5.52	6	109
Total	12.07	16	133

Cervix Uteri

Female	3.45	2	NC*
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Colon / Rectum

Male	18.56	26	140
Female	16.86	19	113
Total	35.42	45	127

Esophagus

Male	2.93	2	NC*
Female	0.85	0	NC*
Total	3.78	2	NC*

Hodgkin's Disease

Male	1.50	0	NC*
Female	1.19	0	NC*
Total	2.69	0	NC*

Kidney and Renal Pelvis

Male	4.80	3	NC*
Female	2.87	4	NC*
Total	7.68	7	91

Larynx

Male	2.80	2	NC*
Female	0.75	0	NC*
Total	3.56	2	NC*

Leukemia

Male	3.56	2	NC*
Female	2.74	0	NC*
Total	6.30	2	NC*

Liver and Intrahepatic Bile Ducts

Male	1.76	2	NC*
Female	0.66	0	NC*
Total	2.41	2	NC*

Lung and Bronchus

Male	24.94	22	88
Female	19.68	17	86
Total	44.62	39	87

Oral Cavity and Pharynx

Male	5.54	2	NC*
Female	2.41	1	NC*
Total	7.95	3	NC*

Ovary

Female	6.17	6	97
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Pancreas

Male	3.05	6	197
Female	2.96	4	NC*
Total	6.01	10	166

Prostate

Male	47.53	47	99
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Stomach

Male	3.14	1	NC*
Female	1.80	0	NC*
Total	4.95	1	NC*

Testis

Male	2.36	5	212
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Thyroid

Male	1.19	0	NC*
Female	3.19	3	NC*
Total	4.38	3	NC*

Uteri, Corpus and Uterus, NOS

Female	9.80	15	153
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All Sites / Types

Male	158.31	153	97
Female	153.12	156	102
Total	311.43	309	99

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Belmont

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

<u>Bladder, Urinary</u>	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>	<u>Melanoma of Skin</u>	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
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Male	19.39	15	77
Female	8.32	8	96
Total	27.71	23	83

Brain and Other Central Nervous System

Male	5.51	7	127
Female	4.85	6	124
Total	10.36	13	125

Breast

Male	1.20	1	NC*
Female	120.05	140	117
Total	121.25	141	116

Cervix Uteri

Female	6.94	5	72
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Colon / Rectum

Male	48.06	51	106
Female	52.33	40	76
Total	100.39	91	91

Esophagus

Male	6.60	6	91
Female	2.71	2	NC*
Total	9.31	8	86

Hodgkin's Disease

Male	2.50	4	NC*
Female	2.29	2	NC*
Total	4.79	6	125

Kidney and Renal Pelvis

Male	10.32	7	68
Female	7.16	4	NC*
Total	17.48	11	63

Larynx

Male	5.91	2	NC*
Female	1.71	1	NC*
Total	7.61	3	NC*

Leukemia

Male	7.77	8	103
Female	6.77	9	133
Total	14.54	17	117

Liver and Intrahepatic Bile Ducts

Male	3.84	2	NC*
Female	1.85	3	NC*
Total	5.69	5	88

Lung and Bronchus

Male	58.71	33	56 ^-
Female	49.51	36	73
Total	108.22	69	64 ^-

Male	11.16	9	81
Female	9.39	9	96
Total	20.56	18	88

Multiple Myeloma

Male	3.51	2	NC*
Female	3.51	3	NC*
Total	7.02	5	71

Non-Hodgkin's Lymphoma

Male	14.29	10	70
Female	14.47	16	111
Total	28.77	26	90

Oral Cavity and Pharynx

Male	11.26	11	98
Female	6.08	7	115
Total	17.34	18	104

Ovary

Female	13.96	13	93
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Pancreas

Male	7.41	9	121
Female	8.99	3	NC*
Total	16.40	12	73

Prostate

Male	110.32	137	124 #+
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Stomach

Male	8.13	6	74
Female	5.69	3	NC*
Total	13.82	9	65

Testis

Male	3.68	3	NC*
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Thyroid

Male	2.07	5	241
Female	6.14	9	147
Total	8.21	14	171

Uteri, Corpus and Uterus, NOS

Female	22.88	17	74
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All Sites / Types

Male	366.92	342	93
Female	384.99	360	94
Total	751.91	702	93

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Berkley

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	2.06	3	NC*	Male	1.60	1	NC*
Female	0.69	0	NC*	Female	1.25	1	NC*
Total	2.75	3	NC*	Total	2.84	2	NC*
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	0.91	0	NC*	Male	0.41	0	NC*
Female	0.67	0	NC*	Female	0.34	0	NC*
Total	1.58	0	NC*	Total	0.76	0	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.14	0	NC*	Male	1.99	0	NC*
Female	14.76	11	75	Female	1.51	2	NC*
Total	14.91	11	74	Total	3.50	2	NC*
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	1.09	0	NC*	Male	1.69	1	NC*
				Female	0.67	0	NC*
				Total	2.37	1	NC*
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	5.26	3	NC*	Female	1.80	1	NC*
Female	4.26	2	NC*				
Total	9.52	5	53				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	0.86	1	NC*	Male	0.88	0	NC*
Female	0.21	0	NC*	Female	0.75	1	NC*
Total	1.08	1	NC*	Total	1.63	1	NC*
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	0.49	0	NC*	Male	13.50	15	111
Female	0.39	0	NC*				
Total	0.88	0	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	1.44	3	NC*	Male	0.91	1	NC*
Female	0.79	1	NC*	Female	0.46	0	NC*
Total	2.23	4	NC*	Total	1.37	1	NC*
<u>Larynx</u>				<u>Testis</u>			
Male	0.84	0	NC*	Male	0.76	1	NC*
Female	0.21	0	NC*				
Total	1.05	0	NC*				
<u>Leukemia</u>				<u>Thyroid</u>			
Male	1.10	0	NC*	Male	0.38	0	NC*
Female	0.81	0	NC*	Female	1.03	1	NC*
Total	1.91	0	NC*	Total	1.41	1	NC*
<u>Liver and Intrahepatic Bile Ducts</u>				<u>Uteri, Corpus and Uterus, NOS</u>			
Male	0.52	0	NC*				

Female	0.17	0	NC*
Total	0.69	0	NC*

Lung and Bronchus

Male	7.13	7	98
Female	5.20	5	96
Total	12.33	12	97

Female	2.76	1	NC*
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All Sites / Types

Male	46.09	37	80
Female	42.67	30	70
Total	88.76	67	75 #-

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Berlin

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	1.58	3	NC*	Male	0.98	0	NC*
Female	0.52	1	NC*	Female	0.67	1	NC*
Total	2.10	4	NC*	Total	1.65	1	NC*
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	0.50	0	NC*	Male	0.30	0	NC*
Female	0.36	0	NC*	Female	0.24	0	NC*
Total	0.86	0	NC*	Total	0.53	0	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.10	0	NC*	Male	1.24	1	NC*
Female	8.67	10	115	Female	0.97	1	NC*
Total	8.77	10	114	Total	2.21	2	NC*
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	0.52	0	NC*	Male	1.03	1	NC*
<u>Colon / Rectum</u>				Female	0.42	1	NC*
Male	3.95	5	127	Total	1.46	2	NC*
Female	3.26	3	NC*	<u>Ovary</u>			
Total	7.21	8	111	Female	1.02	0	NC*
<u>Esophagus</u>				<u>Pancreas</u>			
Male	0.58	1	NC*	Male	0.63	0	NC*
Female	0.17	0	NC*	Female	0.57	0	NC*
Total	0.75	1	NC*	Total	1.20	0	NC*
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	0.22	1	NC*	Male	9.52	11	116
Female	0.17	0	NC*	<u>Stomach</u>			
Total	0.39	1	NC*	Male	0.67	0	NC*
<u>Kidney and Renal Pelvis</u>				Female	0.35	0	NC*
Male	0.92	1	NC*				
Female	0.51	0	NC*				

Total	1.42	1	NC*
<u>Larynx</u>			
Male	0.54	1	NC*
Female	0.13	0	NC*
Total	0.66	1	NC*

<u>Leukemia</u>			
Male	0.67	0	NC*
Female	0.47	1	NC*
Total	1.14	1	NC*

<u>Liver and Intrahepatic Bile Ducts</u>			
Male	0.34	0	NC*
Female	0.12	0	NC*
Total	0.46	0	NC*

<u>Lung and Bronchus</u>			
Male	5.02	6	119
Female	3.51	3	NC*
Total	8.53	9	106

Total	1.02	0	NC*
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<u>Testis</u>			
Male	0.32	0	NC*

<u>Thyroid</u>			
Male	0.19	0	NC*
Female	0.46	1	NC*
Total	0.65	1	NC*

<u>Uteri, Corpus and Uterus, NOS</u>			
Female	1.67	1	NC*

<u>All Sites / Types</u>			
Male	31.43	33	105
Female	26.68	23	86
Total	58.11	56	96

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^ indicates statistical significance at the $p \leq 0.001$ level, as well as at the $p \leq 0.01$ and $p \leq 0.05$ levels

Bernardston

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>			
Male	1.64	2	NC*
Female	0.61	1	NC*
Total	2.26	3	NC*

<u>Brain and Other Central Nervous System</u>			
Male	0.48	1	NC*
Female	0.37	0	NC*
Total	0.85	1	NC*

<u>Breast</u>			
Male	0.10	0	NC*
Female	9.06	6	66
Total	9.16	6	66

<u>Cervix Uteri</u>			
Female	0.51	1	NC*

<u>Colon / Rectum</u>			
Male	4.09	1	NC*
Female	3.84	4	NC*
Total	7.94	5	63

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Melanoma of Skin</u>			
Male	0.96	1	NC*
Female	0.69	1	NC*
Total	1.66	2	NC*

<u>Multiple Myeloma</u>			
Male	0.30	0	NC*
Female	0.26	0	NC*
Total	0.57	0	NC*

<u>Non-Hodgkin's Lymphoma</u>			
Male	1.22	3	NC*
Female	1.08	0	NC*
Total	2.30	3	NC*

<u>Oral Cavity and Pharynx</u>			
Male	0.99	3	NC*
Female	0.46	1	NC*
Total	1.45	4	NC*

<u>Ovary</u>			
Female	1.05	0	NC*

Esophagus

Male	0.58	0	NC*
Female	0.20	0	NC*
Total	0.78	0	NC*

Hodgkin's Disease

Male	0.21	0	NC*
Female	0.16	0	NC*
Total	0.37	0	NC*

Kidney and Renal Pelvis

Male	0.91	2	NC*
Female	0.54	1	NC*
Total	1.45	3	NC*

Larynx

Male	0.52	0	NC*
Female	0.13	0	NC*
Total	0.66	0	NC*

Leukemia

Male	0.67	0	NC*
Female	0.51	0	NC*
Total	1.18	0	NC*

Liver and Intrahepatic Bile Ducts

Male	0.34	1	NC*
Female	0.14	0	NC*
Total	0.47	1	NC*

Lung and Bronchus

Male	5.10	6	118
Female	3.77	0	NC*
Total	8.87	6	68

Pancreas

Male	0.64	0	NC*
Female	0.66	0	NC*
Total	1.30	0	NC*

Prostate

Male	9.65	8	83
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Stomach

Male	0.69	0	NC*
Female	0.42	1	NC*
Total	1.10	1	NC*

Testis

Male	0.29	0	NC*
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Thyroid

Male	0.18	0	NC*
Female	0.44	1	NC*
Total	0.62	1	NC*

Uteri, Corpus and Uterus, NOS

Female	1.75	2	NC*
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All Sites / Types

Male	31.73	29	91
Female	28.82	23	80
Total	60.54	52	86

Exp = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

Obs = observed case count

SIR = standardized incidence ratio [**Obs / Exp**] X 100]

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Beverly

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>			
Male	24.94	30	120
Female	10.40	9	87
Total	35.34	39	110

Brain and Other Central Nervous System

Male	8.10	11	136
Female	6.82	8	117
Total	14.93	19	127

Breast

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Melanoma of Skin</u>			
Male	15.59	20	128
Female	12.77	21	164 #+
Total	28.36	41	145 #+

Multiple Myeloma

Male	4.68	7	149
Female	4.55	1	NC*
Total	9.24	8	87

Non-Hodgkin's Lymphoma

Male	1.59	0	NC*
Female	161.79	160	99
Total	163.38	160	98

Cervix Uteri

Female	9.80	7	71
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Colon / Rectum

Male	62.71	77	123
Female	65.33	65	99
Total	128.04	142	111

Esophagus

Male	9.01	4	NC*
Female	3.36	5	149
Total	12.37	9	73

Hodgkin's Disease

Male	3.91	4	NC*
Female	3.35	3	NC*
Total	7.26	7	96

Kidney and Renal Pelvis

Male	14.42	17	118
Female	9.57	14	146
Total	23.99	31	129

Larynx

Male	8.28	5	60
Female	2.35	3	NC*
Total	10.63	8	75

Leukemia

Male	10.78	13	121
Female	9.09	7	77
Total	19.87	20	101

Liver and Intrahepatic Bile Ducts

Male	5.32	5	94
Female	2.39	1	NC*
Total	7.70	6	78

Lung and Bronchus

Male	79.68	89	112
Female	66.22	81	122
Total	145.89	170	117

Male	19.78	19	96
Female	19.01	15	79
Total	38.79	34	88

Oral Cavity and Pharynx

Male	15.93	15	94
Female	8.02	8	100
Total	23.95	23	96

Ovary

Female	19.02	17	89
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Pancreas

Male	9.82	6	61
Female	11.31	14	124
Total	21.12	20	95

Prostate

Male	150.54	173	115
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Stomach

Male	10.50	7	67
Female	7.04	5	71
Total	17.55	12	68

Testis

Male	5.98	5	84
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Thyroid

Male	3.15	2	NC*
Female	8.83	6	68
Total	11.98	8	67

Uteri, Corpus and Uterus, NOS

Female	30.91	28	91
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All Sites / Types

Male	498.80	551	110 #+
Female	509.45	520	102
Total	1008.26	1071	106

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Billerica

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>			
Male	16.75	9	54
Female	5.90	3	NC*
Total	22.65	12	53 #-
<u>Brain and Other Central Nervous System</u>			
Male	7.04	4	NC*
Female	5.06	4	NC*
Total	12.10	8	66
<u>Breast</u>			
Male	1.14	0	NC*
Female	116.05	132	114
Total	117.19	132	113
<u>Cervix Uteri</u>			
Female	8.08	11	136
<u>Colon / Rectum</u>			
Male	42.72	61	143 #+
Female	36.74	38	103
Total	79.46	99	125 #+
<u>Esophagus</u>			
Male	6.77	9	133
Female	1.85	0	NC*
Total	8.62	9	104
<u>Hodgkin's Disease</u>			
Male	3.93	6	153
Female	2.81	1	NC*
Total	6.74	7	104
<u>Kidney and Renal Pelvis</u>			
Male	11.26	9	80
Female	6.31	8	127
Total	17.57	17	97
<u>Larynx</u>			
Male	6.51	9	138
Female	1.65	3	NC*
Total	8.16	12	147
<u>Leukemia</u>			
Male	8.52	11	129
Female	6.24	7	112
Total	14.76	18	122
<u>Liver and Intrahepatic Bile Ducts</u>			
Male	4.11	2	NC*
Female	1.42	4	NC*
Total	5.53	6	108
<u>Lung and Bronchus</u>			
Male	57.03	62	109
Female	42.52	61	143 ~+
Total	99.56	123	124 #+

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Melanoma of Skin</u>			
Male	12.65	15	119
Female	9.57	10	105
Total	22.21	25	113
<u>Multiple Myeloma</u>			
Male	3.31	1	NC*
Female	2.84	4	NC*
Total	6.15	5	81
<u>Non-Hodgkin's Lymphoma</u>			
Male	15.84	17	107
Female	12.21	14	115
Total	28.05	31	111
<u>Oral Cavity and Pharynx</u>			
Male	13.10	14	107
Female	5.38	5	93
Total	18.49	19	103
<u>Ovary</u>			
Female	13.98	14	100
<u>Pancreas</u>			
Male	7.06	6	85
Female	6.41	4	NC*
Total	13.46	10	74
<u>Prostate</u>			
Male	107.59	93	86
<u>Stomach</u>			
Male	7.34	8	109
Female	3.98	3	NC*
Total	11.32	11	97
<u>Testis</u>			
Male	6.41	3	NC*
<u>Thyroid</u>			
Male	3.01	3	NC*
Female	7.54	7	93
Total	10.55	10	95
<u>Uteri, Corpus and Uterus, NOS</u>			
Female	21.87	19	87
<u>All Sites / Types</u>			
Male	367.77	375	102
Female	341.63	370	108
Total	709.39	745	105

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Blackstone

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>				<u>Melanoma of Skin</u>			
Male	4.37	4	NC*	Male	3.03	2	NC*
Female	1.68	1	NC*	Female	2.40	2	NC*
Total	6.05	5	83	Total	5.43	4	NC*
<u>Brain and Other Central Nervous System</u>				<u>Multiple Myeloma</u>			
Male	1.65	2	NC*	Male	0.84	2	NC*
Female	1.29	1	NC*	Female	0.77	1	NC*
Total	2.94	3	NC*	Total	1.61	3	NC*
<u>Breast</u>				<u>Non-Hodgkin's Lymphoma</u>			
Male	0.29	1	NC*	Male	3.84	6	156
Female	29.34	32	109	Female	3.29	5	152
Total	29.63	33	111	Total	7.13	11	154
<u>Cervix Uteri</u>				<u>Oral Cavity and Pharynx</u>			
Female	1.96	4	NC*	Male	3.08	1	NC*
				Female	1.41	1	NC*
				Total	4.48	2	NC*
<u>Colon / Rectum</u>				<u>Ovary</u>			
Male	10.99	8	73	Female	3.51	4	NC*
Female	10.54	11	104				
Total	21.53	19	88				
<u>Esophagus</u>				<u>Pancreas</u>			
Male	1.64	2	NC*	Male	1.76	1	NC*
Female	0.53	1	NC*	Female	1.82	4	NC*
Total	2.17	3	NC*	Total	3.58	5	140
<u>Hodgkin's Disease</u>				<u>Prostate</u>			
Male	0.89	2	NC*	Male	26.23	18	69
Female	0.70	0	NC*				
Total	1.59	2	NC*				
<u>Kidney and Renal Pelvis</u>				<u>Stomach</u>			
Male	2.71	4	NC*	Male	1.89	4	NC*
Female	1.67	1	NC*	Female	1.14	0	NC*
Total	4.38	5	114	Total	3.03	4	NC*
<u>Larynx</u>				<u>Testis</u>			
Male	1.54	2	NC*	Male	1.43	0	NC*
Female	0.42	1	NC*				
Total	1.96	3	NC*				
<u>Leukemia</u>				<u>Thyroid</u>			
Male	2.11	3	NC*	Male	0.68	0	NC*
Female	1.65	1	NC*	Female	1.82	1	NC*

Total	3.76	4	NC*	Total	2.50	1	NC*
<u>Liver and Intrahepatic Bile Ducts</u>				<u>Uteri, Corpus and Uterus, NOS</u>			
Male	0.99	0	NC*				
Female	0.40	0	NC*	Female	5.54	3	NC*
Total	1.39	0	NC*				
<u>Lung and Bronchus</u>				<u>All Sites / Types</u>			
Male	14.09	16	114	Male	90.47	86	95
Female	11.33	11	97	Female	89.56	90	100
Total	25.41	27	106	Total	180.04	176	98

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